

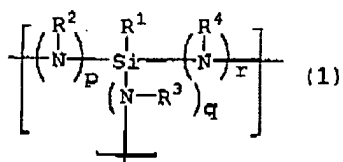
Serial No.: 10/565,429
Filing Date: January 18, 2006

Customer No.: 26,289
Attorney's Docket No.: 2003JP317

Complete set of Claims

- [1] (previously amended) A coating composition comprising: a polyalkylsilazane compound; an acetoxysilane compound; and an organic solvent.
- [2] (original) The coating composition according to claim 1, which further comprises a pore forming agent.
- [3] (original) The coating composition according to claim 2, wherein said pore forming agent is a copolymer comprising a siloxy-containing polyethylene oxide compound or a siloxy-containing polyethylene oxide compound as monomer units.
- [4] (previously amended) The coating composition according to claim 1, wherein said polyalkylsilazane compound comprises repeating units represented by general formula (1):

[Chemical formula 1]



wherein R¹ represents a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that all of R¹s of the whole compound do not simultaneously represent hydrogen;

R² to R⁴ each independently represent a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that all of R² to R⁴ do not simultaneously represent hydrogen; and

p, q, and r each are 0 or 1 and 0 ≤ p + q + r ≤ 3.

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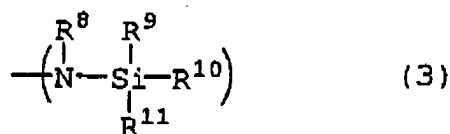
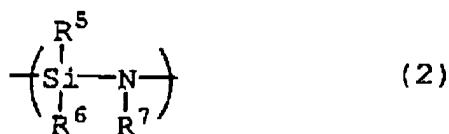
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[5] (previously amended) A siliceous material produced by coating a coating composition according to claim 1 onto a substrate or by filling a coating composition according to any one of claims 1 to 4 into a frame or a groove, and firing the coating composition.

[6] (previously amended) A semiconductor device comprising a siliceous material according to claim 5 as an intermetal dielectric.

[7] (previously amended) A process for producing a siliceous material, comprising heating a coating composition according to claim 1 at a temperature of 350°C or below for 1 to 60 min.

[8] (previously presented) The coating composition according to claim 1, wherein said polyalkylsilazane compound further contains one or both groups represented by formulae (2) and (3)



wherein R⁵ to R¹¹ each independently represent a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that both R⁵ and R⁶ do not simultaneously represent hydrogen and all of R⁹ to R¹¹ do not simultaneously represent hydrogen.

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[9] (new) The coating composition according to claim 1, where the acetoxysilane is selected from tetraacetoxysilane, methyltriacetoxysilane, ethyltriacetoxysilane, ethoxytriacetoxysilane, isopropoxytriacetoxysilane, n-butoxytriacetoxysilane, dimethyldiacetoxysilane, diethyldiacetoxysilane, diisopropyldiacetoxysilane, di-n-butylldiacetoxysilane, dimethoxydiacetoxysilane, diethoxyacetoxysilane, diisopropoxydiacetoxysilane, and di-n-butoxydiacetoxysilane.